

| Ref # | Hits | Search Query  | DBs  | Default Operator | Plurals | Time Stamp        |
|-------|------|---|--|------------------|---------|-------------------|
| S1    | 89   | (NAGAOKA.in. or GABE.in. or SAKAMOTO.in. ) and (exhaust near4 gas) and (engine) and (cataly\$4)   | US-PGPU B; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2005/05/25 12:17  |
| S2    | 39   | (NAGAOKA.in. or GABE.in. or SAKAMOTO.in. ) and (exhaust near4 gas) and (engine) and (cataly\$4) and (NOx or (nitrogen near4 oxid\$4))   | US-PGPU B; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2005/05/25 12:18  |
| S3    | 23   | (NAGAOKA.in. or GABE.in. or SAKAMOTO.in. ) and (exhaust near4 gas) and (engine) and (cataly\$4) and (NOx or (nitrogen near4 oxid\$4)) and (oxygen )   | US-PGPU B; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2005/05/25 12:20  |
| S4    | 2655 | (exhaust near4 gas) and (engine) and (cataly\$4) and (NOx or (nitrogen near4 oxid\$4)) and (oxygen near4 sensor)  | US-PGPU B; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2005/05/25. 12:20 |
| S5    | 1644 | (exhaust near4 gas) and (engine) and (cataly\$4) and (NOx or (nitrogen near4 oxid\$4)) and (oxygen near4 sensor) and (upstream and downstream)  | US-PGPU B; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2005/05/25 12:21  |
| S6    | 784  | (exhaust near4 gas) and (engine) and (cataly\$4) and (NOx or (nitrogen near4 oxid\$4)) and (oxygen near4 sensor) and (upstream and downstream) and (differ\$4 near4 (concentrat\$4 or amount or value)) | US-PGPU B; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2005/05/26 07:35  |

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| S7  | 601 | (exhaust near4 gas) and (engine) and (cataly\$4) and (NOx or (nitrogen near4 oxid\$4)) and (oxygen near4 sensor) and (upstream and downstream) and (differ\$4 near2 (concentrat\$4 or amount or value))  | US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TDB | OR | ON | 2005/05/25 12:22 |
| S8  | 546 | (exhaust near4 gas) and (engine) and (cataly\$4) and (NOx or (nitrogen near4 oxid\$4)) and (oxygen near2 sensor) and (upstream and downstream) and (differ\$4 near2 (concentrat\$4 or amount or value))  | US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TDB | OR | ON | 2005/05/25 13:16 |
| S9  | 282 | (exhaust near4 gas) and (engine) and (cataly\$4) and (NOx or (nitrogen near4 oxid\$4)) and (oxygen near2 sensor) and (upstream and downstream) and (differ\$4 near2 (concentrat\$4 or amount or value)) and (60/272-324.ccls.)                 | US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TDB | OR | ON | 2005/05/25 13:18 |
| S10 | 56  | (exhaust near4 gas) and (engine) and (cataly\$4) and (NOx or (nitrogen near4 oxid\$4)) and (oxygen near2 sensor) and (upstream and downstream) and ((differ\$4 near4 oxygen) near4 (concentrat\$4 or amount or value)) and (60/272-324.ccls. ) | US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TDB | OR | ON | 2005/05/25 12:26 |
| S11 | 123 | (exhaust near4 gas) and (engine) and (cataly\$4) and (NOx or (nitrogen near4 oxid\$4)) and (oxygen near2 sensor) and (upstream and downstream) and ((differ\$4 near4 oxygen) near4 (concentrat\$4 or amount or value))                         | US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TDB | OR | ON | 2005/05/25 12:23 |

|     |    |  |   |    |    |                  |
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| S12 | 97 | (exhaust near4 gas) and (engine) and (cataly\$4) and (NOx or (nitrogen near4 oxid\$4)) and (oxygen near2 sensor) and (upstream and downstream) and ((differ\$4 near4 oxygen) near4 (concentrat\$4 or amount or value)) and (rich)  | US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TDB | OR | ON | 2005/05/25 12:45 |
| S13 | 53 | (exhaust near4 gas) and (engine) and (cataly\$4) and (NOx or (nitrogen near4 oxid\$4)) and (oxygen near2 sensor) and (upstream and downstream) and ((differ\$4 near4 oxygen) near4 (concentrat\$4 or amount or value)) and (rich) and (60/272-324.ccls.)   | US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TDB | OR | ON | 2005/05/25 12:31 |
| S14 | 3  | (exhaust near4 gas) and (engine) and (cataly\$4) and (NOx or (nitrogen near4 oxid\$4)) and (oxygen near2 sensor) and (upstream and downstream) and ((differ\$4 near4 oxygen) near4 (concentrat\$4 or amount or value)) and ((upstream and downstream) near4 (differ\$4)) and (rich) and (60/272-324.ccls.) | US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TDB | OR | ON | 2005/05/25 12:34 |
| S15 | 3  | (exhaust near4 gas) and (engine) and (cataly\$4) and (NOx or (nitrogen near4 oxid\$4)) and (oxygen near2 sensor) and (upstream and downstream) and ((differ\$4 near4 oxygen) near4 (concentrat\$4 or amount or value)) and ((upstream and downstream) near4 (differ\$4)) and (rich)                        | US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TDB | OR | ON | 2005/05/25 12:32 |

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|-----|-----|--|---|----|----|------------------|
| S16 | 26  | (exhaust near4 gas) and (engine) and (cataly\$4) and (NOx or (nitrogen near4 oxid\$4)) and (oxygen near2 sensor) and (upstream and downstream) and ((differ\$4 near4 oxygen) near4 (concentrat\$4 or amount or value)) and ((upstream and downstream) with (differ\$4)) and (rich) and (60/272-324. ccls.) | US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TDB | OR | ON | 2005/05/25 12:35 |
| S17 | 0   | ("6564544").URPN.  | USPAT   | OR | ON | 2005/05/25 12:48 |
| S18 | 12  | ("5509267"   "5579637"   "5602737"   "5609023"   "5678402"   "5839274"   "5842340"   "5848528"   "5901552"   "6289673"   "6301881"   "6336320").PN.  | US-PGPU B; USPAT; USOCR                       | OR | ON | 2005/05/25 12:48 |
| S19 | 244 | S9 not S12   | US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TDB | OR | ON | 2005/05/25 12:50 |
| S20 | 6   | ("4467602"   "4484548"   "5388402"   "5758493"   "5974791"   "6014859").PN.  | US-PGPU B; USPAT; USOCR                       | OR | ON | 2005/05/25 13:07 |
| S21 | 39  | ("6237330").URPN.  | USPAT   | OR | ON | 2005/05/25 13:07 |
| S22 | 486 | (exhaust near4 gas) and (engine) and (cataly\$4) and (NOx or (nitrogen near4 oxid\$4) near2 cataly\$4) and (oxygen near2 sensor) and (upstream and downstream) and (differ\$4 near2 (concentrat\$4 or amount or value))  | US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TDB | OR | ON | 2005/05/25 13:17 |

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| S23 | 535 | (exhaust near4 gas) and (engine) and (cataly\$4) and (NOx or (nitrogen near4 oxid\$4) near2 cataly\$4) and (oxygen near4 sensor) and (upstream and downstream) and (differ\$4 near2 (concentrat\$4 or amount or value))                        | US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TDB | OR | ON | 2005/05/25 13:23 |
| S24 | 253 | (exhaust near4 gas) and (engine) and (cataly\$4) and (NOx or (nitrogen near4 oxid\$4) near2 cataly\$4) and (oxygen near2 sensor) and (upstream and downstream) and (differ\$4 near2 (concentrat\$4 or amount or value)) and (60/272-324.ccls.) | US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TDB | OR | ON | 2005/05/25 13:17 |
| S25 | 37  | S24 not S19  | US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TDB | OR | ON | 2005/05/25 13:18 |
| S26 | 319 | S23 not S19  | US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TDB | OR | ON | 2005/05/25 13:19 |
| S27 | 247 | S26 not S12  | US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TDB | OR | ON | 2005/05/25 13:19 |
| S28 | 19  | S27 and (60/272-324.ccls.)   | US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TDB | OR | ON | 2005/05/25 13:19 |

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| S29 | 272 | (exhaust near4 gas) and (engine) and (cataly\$4) and (NOx or (nitrogen near4 oxid\$4) near2 cataly\$4) and (oxygen near4 sensor) and (upstream and downstream) and (differ\$4 near2 (concentrat\$4 or amount or value)) and (60/272-324.ccls. )                    | US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TDB | OR | ON | 2005/05/25 13:23 |
| S30 | 243 | (exhaust near4 gas) and (engine) and (cataly\$4) and (NOx or (nitrogen near4 oxid\$4) near2 cataly\$4) and (oxygen near4 sensor) and (upstream and downstream ) and (differ\$4 near2 (concentrat\$4 or amount or value)) and (60/272-324.ccls. ) and (compar\$4)   | US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TDB | OR | ON | 2005/05/25 13:24 |
| S31 | 100 | (exhaust near4 gas) and (engine) and (cataly\$4) and ((NOx or (nitrogen near4 oxid\$4)) near2 cataly\$4) and (oxygen near4 sensor) and (upstream and downstream ) and (differ\$4 near2 (concentrat\$4 or amount or value)) and (60/272-324.ccls. ) and (compar\$4) | US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TDB | OR | ON | 2005/05/25 13:25 |
| S32 | 10  | ("4251989"   "4445483"   "4729219"   "4739614"   "5097700"   "5168701"   "5177464"   "5191762"   "5228286"   "5386695").PN.  | US-PGPU B; USPAT; USOCR                       | OR | ON | 2005/05/25 13:47 |
| S33 | 0   | ("6828156").URPN.  | USPAT   | OR | ON | 2005/05/25 13:47 |
| S34 | 4   | ("5018348"   "5154055"   "5220788"   "5331808").PN.  | US-PGPU B; USPAT; USOCR                       | OR | ON | 2005/05/25 13:47 |
| S35 | 18  | ("5533332").URPN.  | USPAT   | OR | ON | 2005/05/25 13:47 |
| S36 | 6   | ("5293740"   "5335538"   "5487269"   "5503134"   "5755212"   "5842340").PN.  | US-PGPU B; USPAT; USOCR                       | OR | ON | 2005/05/25 13:49 |

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| S37 | 12 | ("6481201").URPN.  | USPAT                         | OR | ON | 2005/05/25<br>13:49 |
| S38 | 8  | ("5233829"   "5341642"  <br>"5355672"   "5377484"  <br>"5394691"   "5414994"  <br>"5417058"   "5485382").PN.   | US-PGPU<br>B; USPAT;<br>USOCR | OR | ON | 2005/05/25<br>13:50 |
| S39 | 12 | ("4745741"   "4905469"  <br>"4964271"   "5022225"  <br>"5953910"   "6018945"  <br>"6256983"   "6292739"  <br>"6327852"   "6349540"  <br>"6405527"   "6502391").PN. | US-PGPU<br>B; USPAT;<br>USOCR | OR | ON | 2005/05/25<br>13:50 |
| S40 | 2  | ("6594988").URPN.  | USPAT                         | OR | ON | 2005/05/25<br>13:50 |
| S41 | 8  | ("5579637"   "5740676"  <br>"5845489"   "6003309"  <br>"6253541"   "6256981"  <br>"6321529"   "6330795").PN.   | US-PGPU<br>B; USPAT;<br>USOCR | OR | ON | 2005/05/25<br>13:50 |
| S42 | 6  | ("4467602"   "4484548"  <br>"5388402"   "5758493"  <br>"5974791"   "6014859").PN.  | US-PGPU<br>B; USPAT;<br>USOCR | OR | ON | 2005/05/25<br>13:51 |
| S43 | 39 | ("6237330").URPN.  | USPAT                         | OR | ON | 2005/05/25<br>13:51 |
| S44 | 4  | ("5743084"   "5771685"  <br>"6230487"   "6324834").PN.   | US-PGPU<br>B; USPAT;<br>USOCR | OR | ON | 2005/05/25<br>13:52 |
| S45 | 3  | ("6502388").URPN.  | USPAT                         | OR | ON | 2005/05/25<br>13:52 |
| S46 | 3  | ("6502388").URPN.  | USPAT                         | OR | ON | 2005/05/25<br>13:53 |
| S47 | 3  | ("5357754"   "5533332"  <br>"5537817").PN.   | US-PGPU<br>B; USPAT;<br>USOCR | OR | ON | 2005/05/25<br>13:53 |
| S48 | 6  | ("5657627").URPN.  | USPAT                         | OR | ON | 2005/05/25<br>13:53 |
| S49 | 6  | ("5448887"   "5657627"  <br>"5713199"   "5715679"  <br>"5735119"   "5740676").PN.  | US-PGPU<br>B; USPAT;<br>USOCR | OR | ON | 2005/05/25<br>13:55 |
| S50 | 0  | ("2004/0154285").URPN.   | USPAT                         | OR | ON | 2005/05/25<br>13:57 |

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| S51 | 167 | ("4251989"   "4445483"  <br>"4467602"   "4484548"  <br>"4729219"   "4739614"  <br>"4745741"   "4905469"  <br>"4964271"   "5018348"  <br>"5022225"   "5097700"  <br>"5154055"   "5168701"  <br>"5177464"   "5191762"  <br>"5220788"   "5228286"  <br>"5233829"   "5293740"  <br>"5331808"   "5335538"  <br>"5341642"   "5355672"  <br>"5357754"   "5377484"  <br>"5386695"   "5388402"  <br>"5394691"   "5414994"  <br>"5417058"   "5448887"  <br>"5485382"   "5487269"  <br>"5503134"   "5533332"  <br>"5537817"   "5579637"  <br>"5657627"   "5713199"  <br>"5715679"   "5735119"  <br>"5740676"   "5743084"  <br>"5755212"   "5758493"  <br>"5771685"   "5842340"  <br>"5845489"   "5953910"  <br>"5974791"   "6003309"  <br>"6014859"   "6018945"  <br>"6230487"   "6253541"  <br>"6256981"   "6256983"  <br>"6292739"   "6321529"  <br>"6324834"   "6327852"  <br>"6330795"   "6349540"  <br>"6405527"   "6502391").PN.<br>OR ("2004/0154285"  <br>"5533332"   "5657627"  <br>"5758491"   "6116023"  <br>"6237330"   "6463735"  <br>"6481201"   "6502388"  <br>"6594988"   "6828156").<br>URPN. | US-PGPU<br>B; USPAT;<br>USOCR                                | OR | ON | 2005/05/25<br>13:57 |
| S52 | 414 | (exhaust near4 gas) and<br>(engine) and (cataly\$4) and<br>(NOx or (nitrogen near4<br>oxid\$4)) and (oxygen near4<br>sensor) and (upstream and<br>downstream) and (differ\$4<br>near4 (concentrat\$4 or<br>amount or value)) and<br>(60/272-324.ccls.)  | US-PGPU<br>B; USPAT;<br>EPO; JPO;<br>DERWEN<br>T;<br>IBM_TDB | OR | ON | 2005/05/26<br>07:35 |



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| S53 | 358 | (exhaust near4 gas) and (engine) and (cataly\$4) and (NOx or (nitrogen near4 oxid\$4) near2 (cataly\$4 or adsorb\$4 or absorb\$4)) and (oxygen near4 sensor) and (upstream and downstream) and (differ\$4 near4 (concentrat\$4 or amount or value)) and (60/272-324.ccls. )                | US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TDB | OR | ON | 2005/05/26 07:37 |
| S54 | 232 | (exhaust near4 gas) and (engine) and (cataly\$4) and (NOx or (nitrogen near4 oxid\$4) near2 (cataly\$4 or adsorb\$4 or absorb\$4)) and (oxygen near4 sensor) and (upstream and downstream) and ((differ\$4 and compar\$4) near4 (concentrat\$4 or amount or value)) and (60/272-324.ccls.) | US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TDB | OR | ON | 2005/05/26 07:37 |